

Intro to Digital Humanities

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Digital Arts and Humanities Workshop Series – Spring 2018

Fridays @ noon -- Scholars Commons IQ-Wall

Date	Topic	Presenter
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Jan. 19	Intro to Visualization	Michael Boyles
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Link for the Presentation

<https://iu.box.com/v/introdh>



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What is Digital Humanities?

Digital humanities (DH) is an area of scholarly activity at the intersection of computing or digital technologies and the disciplines of the humanities. It can be defined as new ways of doing scholarship that involve **collaborative**, **transdisciplinary**, and **computationally engaged** research, teaching, and publishing. It brings digital tools and methods to the study of the humanities with the recognition that the printed word is no longer the main medium for knowledge production and distribution. –[Wikipedia](#)

Or we can play the [LOTTERY!](#)



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What is DH cont.

Digital humanities is by its nature a **hybrid domain**, crossing disciplinary boundaries and also **traditional barriers between theory and practice, technological implementation** and **scholarly reflection**. But over time this field has developed its own orthodoxies, its internal lines of affiliation and collaboration that have become intellectual paths of least resistance.

- —Julia Flanders, Wendell Piez, and Melissa Terras, “Welcome to Digital Humanities Quarterly,” Digital Humanities Quarterly 1, no. 1 (2007).



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Brett Bobley, Director of the Office of Digital Humanities (ODH)

Under the digital humanities rubric, I would include topics like

- **open access to materials,**
- **intellectual property rights,**
- **tool development,**
- **digital libraries,**
- **data mining,**
- **born-digital preservation,**
- **multimedia publication,**
- **visualization,**
- **GIS,**
- **digital reconstruction,**
- **study of the impact of technology on numerous fields,**
- **technology for teaching and learning,**
- **sustainability models,**
- **media studies, and many others.**

–[interview](#) with HASTAC Scholars Kathleen Smith and Michael Gavin in 2009



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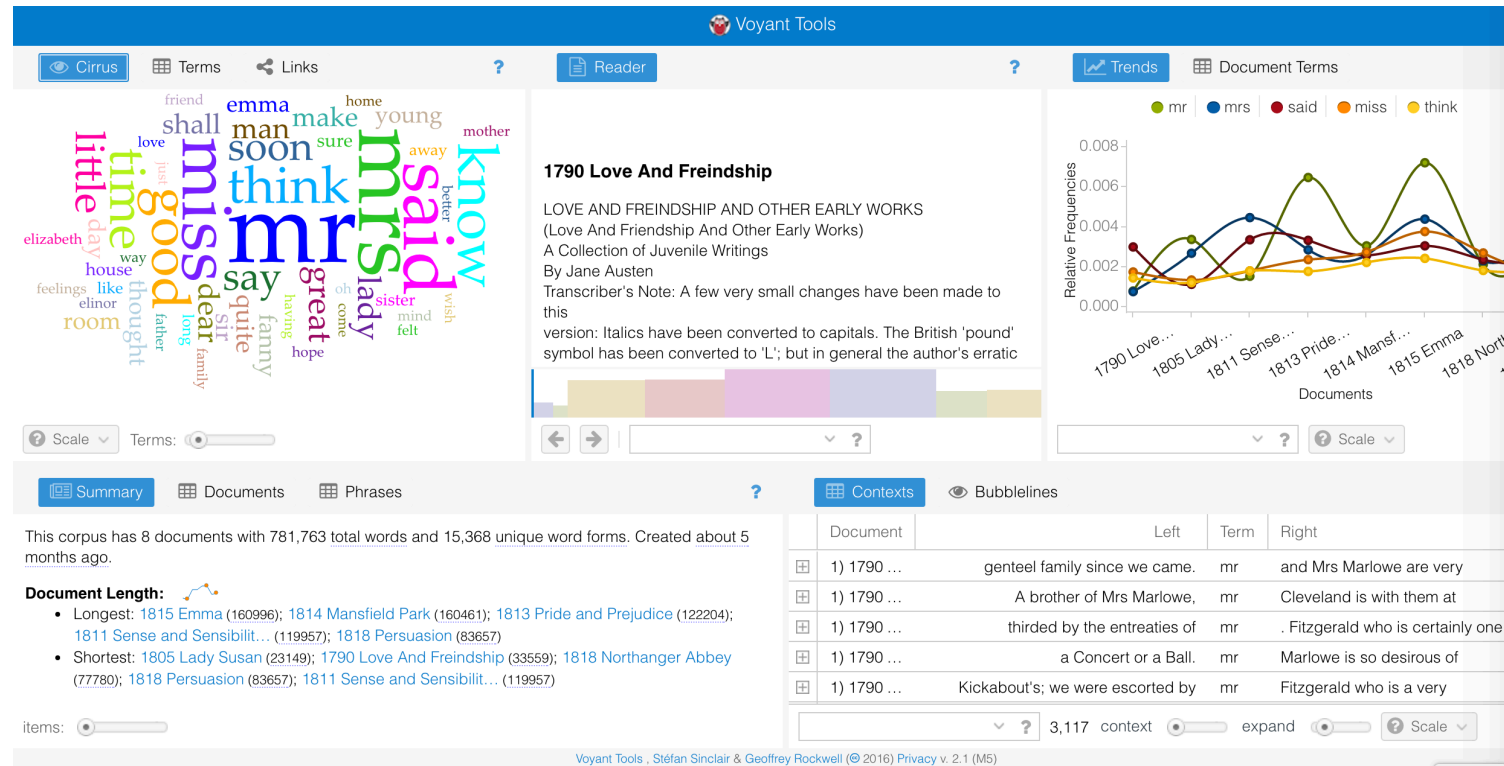
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Ok...Can You Be More Concrete?

Part 1: Tools, [Voyant](#)



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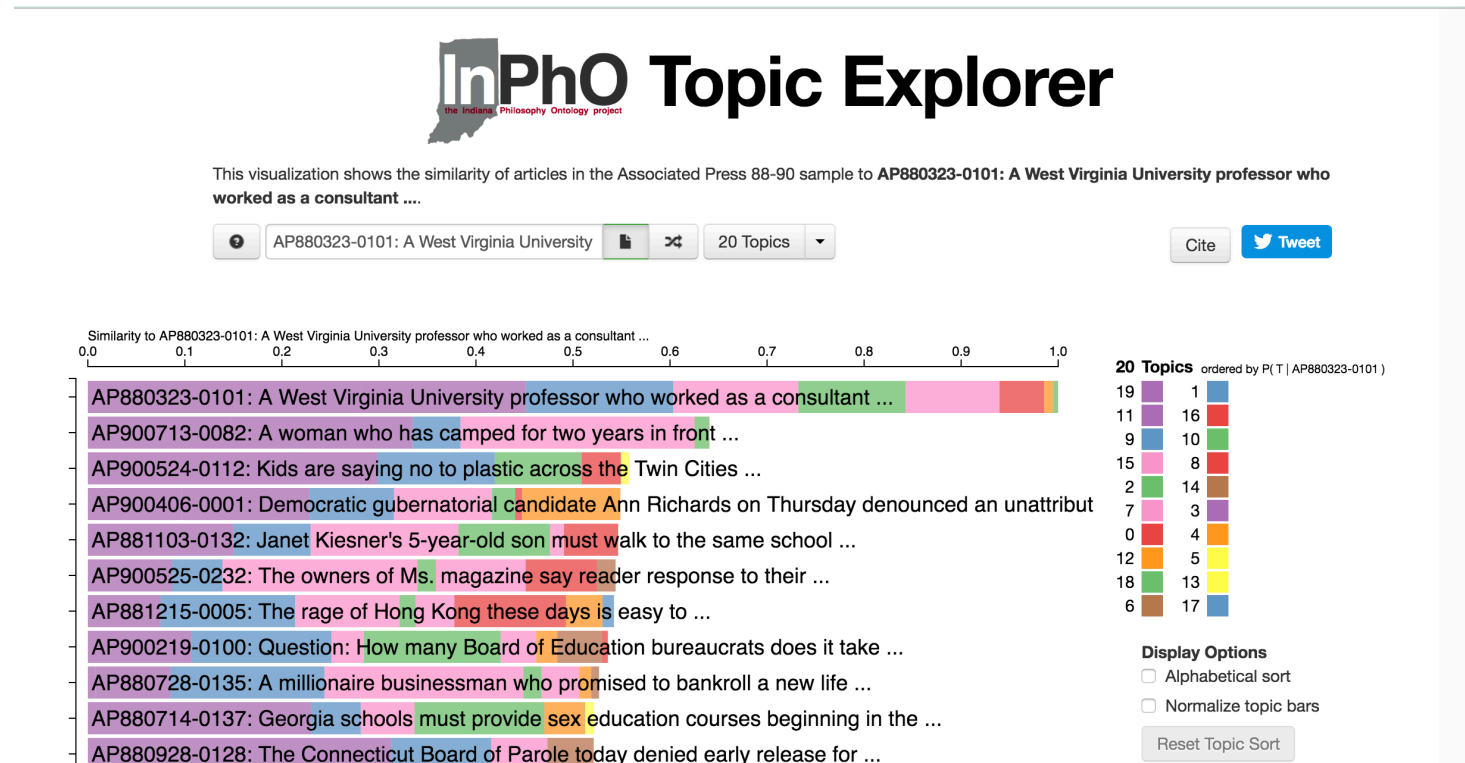
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Tools, cont.

Topic Modeling with [InPhO](#)



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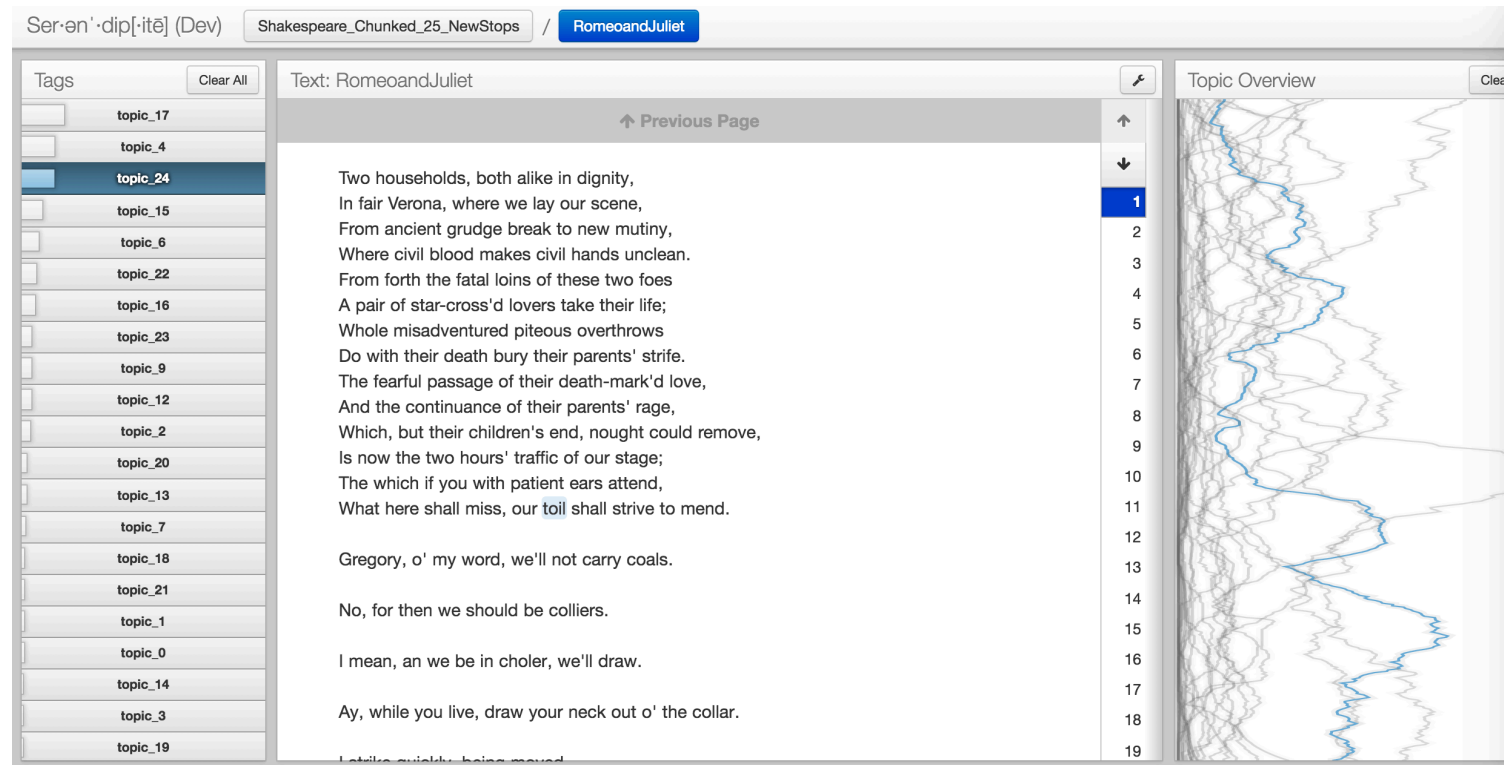
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Tools

Topic Modeling with [Serendip](#)



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CyberDH Photogrammetry Workflows

(or, insert fancy tool name here)



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CyberDH R Workflows for Text Analysis (Twitter, Literature, TV Scripts)

- Heavily annotated Rnotebooks
- Lightly annotated RScripts

Scan in the text

Uses R's "scan" function to read in the text and is then saved as a variable called "text_raw"

```
text_raw <- scan("~/Desktop/R/Text_Analysis/data/shakespeareFolger/Hamlet.txt",  
  what = "character", sep = "\n")
```

Save the text as a corpus object

The "Corpus" function from tm reads in the vector we scanned earlier and saves it as a corpus object.

```
corpus <- Corpus(VectorSource(text_raw))
```

Clean the corpus

To clean the corpus in this example, we are using the tm package's built in tools to: 1) lowercase all words so that "Lake" and "lake" are recognized as the same string, 2) build a stopwords list that uses a standard English list concatenated with an Early Modern list that has words like "hath" and "thy" in it, 4) remove punctuation as it is not germane to this analysis 5) strip out any whitespace between words to get rid of empty elements.

```
corpus <- tm_map(corpus, content_transformer(tolower))  
# Add early modern stopwords by adding  
# 'myStopWords'  
myStopWords <- scan("~/Desktop/R/Text_Analysis/data/earlyModernStopword.txt",  
  what = "character", sep = "\n")  
corpus <- tm_map(corpus, removeWords, c(stopwords("SMART"),  
  myStopWords))  
# To change the stopwords list, use other  
# dictionaries available with the tm package Add  
# early modern stopwords by u adding 'myStopWords'  
# to line 19  
myStopWords <- scan("~/Desktop/R/Text_Analysis/data/earlyModernStopword.txt",  
  what = "character", sep = "\n")
```



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Projects

Early English Broadside Ballad Archive

UNIVERSITY OF CALIFORNIA SANTA BARBARA
English Broadside Ballad ARCHIVE

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CURRENT CATALOGUE
7124 ballads and counting...
64.76% of early English ballads.
Free to the public thanks to the generous support of the NEH, UCSB, Making Publics, UT Dallas, UALR, and

Making broadside ballads of the seventeenth century fully accessible as texts, art, music, and cultural records.

Click below to explore sample topics in early modern popular culture:

"Walking Dead"
Who Will Survive?

"Shark Week"
Terrifying Creatures of the Deep

"Orange is the New Black"
Real Crime and Real Punishment

Search the Archive
EBBA ID:
Title:
Full Text:

Tweets by @EBBA_Ballads
EBBA @EBBA_Ballads
p5.27 Spinning Wheel excerpt
fb.me/4HWZ9DKoH



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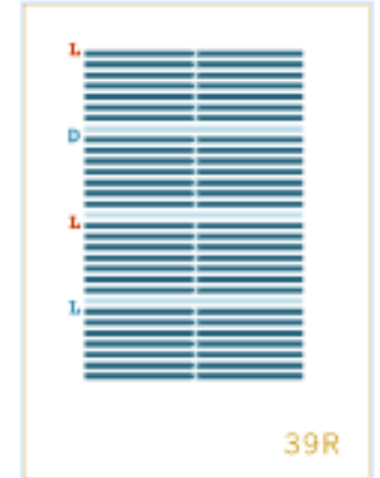


Projects

Petrarchive

Vatican Latino 3195, c. 39r

Subset 6 establishes editorial and encoding strategies for multiple strata of erasure as part of Petrarch's visual poetics and compilational techniques that range from the elimination of an entire sonnet (the first composition on the page ["L'aura gentil" [*Rvf* 194]]) to multiple layers of expulsions in individual poems (sonnets 3 and 4 = *Rvf* 196 and 197 ["L'aura serena" and "L'aura celeste"]).



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Projects

Jewish Life in Interwar Łódź



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People (an incomplete list, I'm sure)

Library & UITs Service Providers

- Kalanie Craig and Michelle Dalmau, [IDAH](#)
- Michelle Dalmau, Head, [Digital Collections Services](#)
- Will Cowan, Software Development Head (Omeka expert)
- [Nick Homenda](#), Digital Initiatives Librarian
- [Angela Courtney](#), Director, Scholars Commons
- Tassie Gniady, [CyberDH Manager](#), Adjunct Instructor Information and Library Science
- Michael Boyles, [Advanced Visualization Lab Manager](#)

Departmental Experts

- [Jason Baird Jackson](#), Professor of Folklore, Director, Mathers Museum of World Cultures
- Bernie Frischer, Professor of Informatics, Director, [Virtual World Heritage Laboratory](#)
- [Matthew Brennan](#), PhD Candidate, Digital Heritage, SOIC
- [Kalani Craig](#), Clinical Assistant Professor, History
- [Stacie King](#), Associate Professor, Anthropology
- [Markus Dickinson](#), Associate Professor of Linguistics
- [John Walsh](#), Associate Professor, Information and Library Science
- [Katy Borner](#), Victor H. Yngve Professor of Information and Library Science
- [Jennifer Guiliano](#), Assistant Professor of History & Director, HILT, IUPUI; President, ACH
- [IDAH Faculty Fellows](#)
- [IDAH HASTAC Scholars](#)



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Organizations

Service Providers

- [IDAH](#)
- [Digital Collections Services](#)
- [CyberDH](#)
- [Advanced Visualization Lab](#)

Research Organizations

- [HathiTrust Research Center](#)
- [Cyberinfrastructure for Network Science Center](#)
- [InPhO](#)
- [Virtual World Heritage Laboratory](#)

Training Opportunities

- [HILT](#)



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More Information

If you'd like to make an appointment, please email cyberdh@iu.edu.

Also, check out our website: <https://www.indiana.edu/~cyberdh/> for interesting blog posts and written tutorials.

Contact:

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